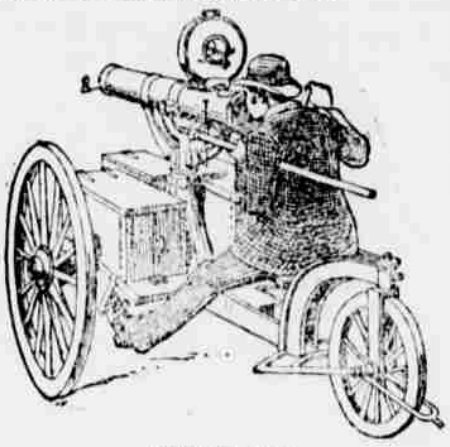


SCIENCE & PROGRESS

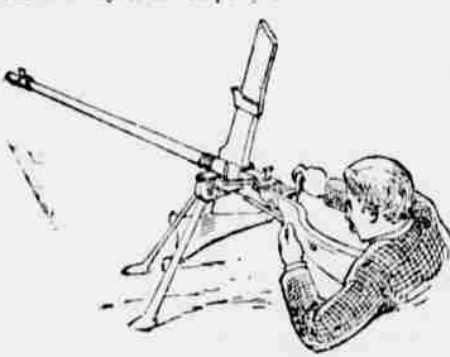
Some Guns.

At the international inventions exhibition, in London, one of the most interesting features has been the improved guns and cannons. It was a long step in advance when guns began to be loaded and fired by machinery. Before that the number of balls that could be fired per minute depended on how rapidly the hand of man could be moved in loading and firing. At length it was discovered that all this could be done by the simple turning of a crank. The gunner sights his weapon. Then he simply turns a handle. At that the cartridges are discharged, the balls fly on their deadly mission, yet other cartridges drop into the place the first left, and finally the old cartridges are cleaned out of the chambers of the barrels at the same turn of the lever.



GATLING GUN.

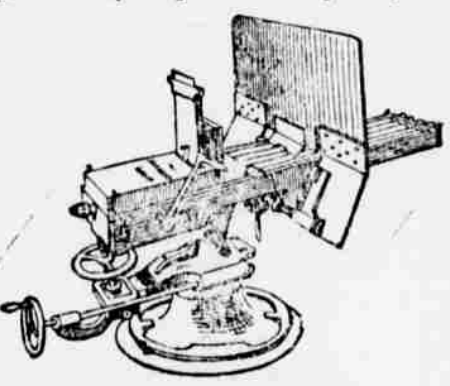
Such a gun is that in the illustration. One feature of it is the ease with which it can be handled. It can be trained and fired upward or downward at an angle of 55 degrees. It can be oscillated fifty-five degrees, and made to sweep from side to side over a very wide range of horizon. The feeders contain sixty-four cartridges each. The shield in front of the gunner's head protects him from being aimed at by the enemy, and also serves as a magazine to hold the cartridges. This gun has ten barrels, with ten locks. In addition to the action described already, the locks have a forward and backward motion of their own. The forward motion places the cartridges in the chambers of the barrels and closes the breech at the time of each discharge. The backward motion extracts the cartridges after firing. As long as the cartridges are fed into the magazine, loading, firing and extracting are carried on automatically and uniformly. It will be nothing against our pride to remember that this is an American gun, made at the Gatling factory, Hartford, Conn. By simply turning the crank the gunner can with this marvelous weapon fire 1,200 shots a minute. One machine Gatling gun alone saved Gen. Middleton's forces from disaster in the recent Redoubt in Canada. It has not been shown that it killed anybody, but it scared away a lot of people.



SINGLE-BARRELED MAGAZINE GUN.

Fig. 2 shows a very light and handy machine gun, practically a magazine rifle. In fact it weighs only thirteen pounds, little more than a Martini-Heery rifle. It is of use where a heavy piece cannot be conveniently transported. It is mounted upon a tripod, while the gunner rests in a pit or lies upon the ground. The weapon sweeps easily around upon its tripod. It is loaded by ammunition which drops in its place from the hopper above. It fires the usual rifle ammunition. It can be fired as rapidly as the hand can turn the crank, which gives 100 shots per minute, allowing time to change the hopper. This gun is very simple, consisting of only six parts besides the hand lever. These are, the plunger, action slide, firing spring, firing pin, cocking spring and extractor.

Machine firing magazine guns have only been generally adopted since the Franco-Prussian war in 1870. They are a terrible power in a position, an attack especially.



GARDNER GUN.

The Gardner is a peculiar gun, in which the barrels are placed side by side, instead of around a center. The cartridges are put into the reservoir and fall by their own weight into the rear end of the barrels. This gun is made with one, two and five barrels. In the one and two-barrel gun the empty cartridge cases are expelled through holes in the side; in the five-barrel gun they are taken out at the rear of the barrels. This gun, by means of the revolving hand crank, likewise fires 1,200 shots a minute.

Magnetized Watches.

Some very curious things concerning watches come under a watchmaker's observation at times. I remember a lady who used to bring me her watch sometimes as often as once a week—it was either too fast or too slow with her; while it hung up in the shop it ran as steady as the state house clock. I studied with that watch, and one day came across a coming in an English horological magazine that opened my eyes. It was simply a little item saying that sometimes delicately adjusted watches were affected by the temperament of their wearers. Affected by personal magnetism. The whole thing flashed upon me in a moment. The woman's watch was affected by herself. I found out that she was of a highly nervous temperament, but would at times suffer from attacks of despondency. The watch only recorded her temperaments. When she was vivacious it went fast, but when she was in a low mood it went slow. Very often it is impossible to regulate a watch for some men by keeping the time-piece in the shop. There is some physical peculiarity about the man; it may be his gait, his temperament, or an excess of bodily electricity. In these cases I let the man wear the watch continually, and then regulate it to his peculiarities. Bodily electricity is very marked in certain persons. I knew a young watchmaker in whom it became so strong that he was obliged to give up that branch of the trade, because it was found that he magnetized the delicate hair-springs.

A New-Born Star.
Attention of scientific men throughout the world has been aroused by a marvelous phenomenon that was observed lately. This was nothing less than the sudden appearance in the constellation Andromeda of a new star. Without a moment's warning it showed itself blazing as a point of flickering orange light. It is of the eighth magnitude. Strange to say, it changes its position in a series of very irregular movements.

The telescopes of the world are trained on the new-comer. It upsets all the known theories of astronomers. If stars and worlds can thus be born in an instant, why may they not likewise be destroyed? Perhaps the new star is not new, after all, but so far away that its light has just reached us. Who knows? Who knows anything at all, in fact.

Powdered Crab as a Medicine.
A Russian paper says: "During the last fifteen years the inhabitants of a malarial locality in Kharkov government in Russia have used the crab powder with great success against the fevers. The powder is prepared in the following way: Live crabs until they get asleep, then they are put on a broad pan in a hot oven, thoroughly dried and pulverized, and the powder passed through a fine sieve. One dose, a teaspoonful, is generally sufficient to cure the intermittent fever; in very obstinate cases, a second dose is required. Each dose is invariably preceded by a glass of ale brandy, as a purgative. The powder is used in that locality in preference to quinine."

Bromine.

A correspondent of The Monthly Magazine of Pharmacy, writing from Messina, says: "A bottle of bromine left in a closed room all night with the stopper out destroys all infection and insect life. I have cleared places which were infested with vermin many times. It is far more effectual than the vapor of burning sulphur."

Facts of Interest.

A northerly gale is attended with diminution of ozone in the atmosphere. That is why a nor'easter makes us miserable, perhaps.

A writer in The Bulletin Generale de Therapeutique says that the refrigeration of the lobe of the ear will stop hiccup, whatever its cause may be. Very slight refrigeration, such as a drop of cold water, is said to be sufficient.

To tell how many stamps to put upon your letter: A silver dollar weighs less than an ounce. Hence any letter heavier than a dollar can go for a single two-cent stamp. A five-cent silver piece added to the dollar will give the correct weight. If you have not the silver dollar, five nickels and a small copper cent will give an ounce weight.

THE FASHIONS

Pottieres.

All manner of hangings, curtains, wall and table scarfs are, if possible, more fashionable than ever. Dark garnet or peacock blue, velvet or plush, with heavy borders or embroidery make beautiful and splendid hangings.

Children's Costumes.



FIG. 1.

FIG. 2.

Fig. 1 is a pretty every-day dress for little girls. It can also be made of suitable material to be worn on any occasion. It will be tasteful in plaid and striped goods. The dress in the illustration is of blue and red, trimmed with red velvet braid. The front of the plain long waist is turned back, forming revers, or side pieces may be set on to simulate this effect. The reversed edges are trimmed with the red braid, two rows. In front is a full chemise piece gathered in above and below. The back, however, is simply a deep yoke upon the shoulders, to which the skirt is gathered, open behind. At the bottom of the revers, just under where they are turned back, long strips of material three and a half inches wide are sewed on and tied in a full bush bow behind. A turn-over collar, two inches wide, cut away from the chemise in front and trimmed with the braid completes this tasteful costume.

Fig. 2 is a dress-up gown for little girl—a blouse costume. These are fashionable both for boys and girls. Young ladies wear them frequently, too. The costume in the illustration consists of a silk or satin under-dress covered with yellowish woaden lace. The under-dress may be of some bright color. It is cut with long sack waist, opening behind. The woaden lace goods is gathered in with a heading at the neck and turned under at the waist to fall over the blouse. Through the lace blouse is put one and five-eighths inches from the upper edge a colored satin ribbon one inch wide, tied in a bow behind. The neck opening and sleeves, about thirteen inches wide, are also drawn in with a similar ribbon.

FOR BABY BOYS.

Here are some "cute" little dresses for budding lords of creation from 2 to 6 years old.



FIG. 3.

FIG. 4.

The plain little blouse need no particular explanation. That in Fig. 3 is made of striped goods, trimmed at the neck and sleeves with embroidery to match. The trousers are made in the usual way. A

new departure seems to have been made in one respect. That is that the blouse is short and scant all the trousers come below the knees, and are visible for several inches. The blouse is a straight loose sacque. The waist is very long. At the line of it there are the rows of buttons at the back and front. These are fastened in place by a piece of goods stitched upon the inside. A belt, run through tabs at the sides, is worn over the garters.

Fig. 4 is a blouse and trousers of somewhat similar pattern, except that here the little skirt is gathered upon the long waist. Behind four plaits of the goods are set upon the outside, the full length of the garment. These are covered with braiding or some colored trimming. A row of the same passes down the front and adorns the collar and cuffs. A partial belt is seen at the sides. It passes under the plaits at the back and under the fold of trimming in front.

Velvet Collars and Cuffs.

An extremely pretty novelty has made its appearance lately in the shape of colored velvet collars and cuffs. Ladies have two or three sets of them occasionally. Some of the handsomest of these are the claret-colored, or garnet ones. The collar is a high turn-over, cut on the pattern given in this column some time ago. The garnet, or claret color, is very effective worn over a dress of dark slate gray cashmere. This is a favorite street costume for the autumn. Again, the dark red velvet collar and cuffs are handsome and artistic with the cream-colored wool and flannel dresses that have been so popular at the seasons this summer. Such a costume, with the dark crimson trimming, makes a beautiful house dress and simple evening costume for all winter. Its inexpensiveness is by no means the least of its charms, either. Dark blue velvet collar and cuffs over blue cashmere are very pretty, too, and any color may be worn with a black dress. Any woman can make these tasteful additions to her toilet for herself.

The Open Bodice.

The fashion of open or half-open bodices has created a demand for chemisettes, gimpes and old-fashioned stomachers of every sort and made of every kind of fabric. For morning a plain chemisette made of finest white linen, laid in cluster tucks, with narrow bands of insertion alternating, and neat turn-over collar as a finish, to be fastened with double studs held by a fine gold chain. Then come more dressy fabrics in lace and embroidery, and handsome chemisettes of exquisite French needlework, wrought on Swiss muslin and special patterns. There are also gimpes of black tulle, head-wreath, with alternating stripes of guipure lace, also worked with jet, and delicate evening styles made of cream Spanish lace, cream gauze, closely shirred and cicaleto dotted, with mauve-black, scarlet, or pale blue; and lastly, entire plasitos, reaching the whole front of the bodice, made of soft Victoria silk and superbly embroidered in white silk, with tiny flowers and dainty pearl beads wholly of seed and the Roman pearl beads.

Is it to be Plain or Draped Skirt?

It is definitely decided that the peasant skirt—the straight skirt plaited at the back—will not displace draped skirts, and it is equally certain that it will not be excluded in the latter. The peasant skirt continues in favor for simple toilets, for traveling dresses, and for young girls. For all other occasions except these three draped skirts are worn. But between the entirely straight dress and the draped skirt there is a medium. In the straight dress called the peasant dress the breathers are as wide at the top as at the bottom, are shirred or plaited, or both shirred and plaited, and sewed to a band for an independent skirt, or otherwise sewed upon or underneath the edge of the waist. The medium is represented by the skirt open on the side, with one side slightly raised and the other falling straight; between the opening the underskirt is seen, more or less trimmed, or made of stuff of varied richness. This skirt is also made closed, and raised toward the hip on one side, or both.

Dust Cloaks.

Among newly imported dust cloaks and wraps for tourists are Newmarkets and pelisses made of golden brown, cardinal, nuns' gray and beige mohair, cashmere, pongee or serge. The handsomest and most expensive are embroidered. Very stylish wraps are shown simply tailor-made, with a number of thin plaits laid from throat to belt, both front and back. In front the plaits are held at the waist line by a bronze or silver clasp. Some of the Newmarkets are slashed with a pointed hood, lined with striped satin in gay colors. Tax outdoor dust cloaks are exclusively for out-of-town wear, and the most dainty of these are lined with pale ecru-lace or lace.

Novelties in Three Colors.

Collars, caps and fichus made of the three-colored or enlaid Moorish lace are just as becoming as pretty. The ground is cream color and the embroidery like pattern, blue and red. The toilet articles made of this lace do not require any colored bows to enliven them, as they are in themselves sufficiently bright and variegated. A new style in the apron is made of similar three-colored satin, and comes a very pretty addition to a nice house dress. The gathered bib is fastened up by a sailor's collar, the apron is finely gathered and laid in deep-folds; pretty red and blue ribbon bows mark the pockets.

American Embroidery.

Mrs. Wheeler, of the Society of Associated Artists, intends to exhibit after a while a series of ten American tapestries, works of art in embroidery designed by well-known American artists. The subjects of all the designs are strictly American—in a broad sense of the word—and the tapestries will illustrate the remarkable skill of our embroiderers.

FASHIONLETS.

Tailor-made dresses are more fashionable than ever. Brilliant colored vests promise to be worn again by men.

The four-button cutaway coat is still the most popular for masculine wear.

On full-dress occasions lace bonnets are more fashionable than any others, and roses are their garniture.

A new hat is of black Milan tulle, trimmed with carmine silk and Lyon velvet. Cranes' heads are put upon the front.

You can now wear a crazy quilt dress if you like. The pattern comes in combination suitings of all colors. Get two to three yards of the crazy quilt cloth to go with the plain goods.

The best trunks for various things are those that have trays with strap bottoms to divide the lower part, while the upper has two box trays for bonnets and for small articles, and a very long tray at the back for parasols and fans, gloves, etc.

The rich-looking, new-fashioned embossed leather wall cap is made by grinding old boots and shoes into pulp, making a stiff paste of the substance, and stamping and printing it. A millionaire may thus have upon his best room wall the cast-off foot covering of a tramp.

THE GREAT REGULATOR



PURELY VEGETABLE.

Are You Bilious?

The Regulator never fails to cure. I most cheerfully recommend it to all who suffer from Bilious Attacks or any Disease caused by a disordered state of the Liver.

Do You Want Good Digestion?
I suffered intensely with Full Stomach, Headache, etc. A neighbor, who had taken Simmons' Liver Regulator, told me it was a sure cure for my troubles. The first dose I took relieved me very much, and in one week's time I was as strong and hearty as ever I was. It is the best medicine I ever took for Dyspepsia.

Do You Suffer from Constipation?
Testimony of HIRSH WARRNER, Chief Justice of Ga. "I have used Simmons' Liver Regulator for Constipation of my bowels, caused by temporary Derangement of the Liver, for the last three or four years, and always with decided benefit."

Have You Malaria?
I have had experience with Simmons' Liver Regulator since 1865, and regard it as the greatest medicine of the times for diseases peculiar to malarial regions. No good medicine deserves universal commendation.

THERE IS BUT ONE SIMMONS' LIVER REGULATOR!
See that you get the genuine, with the red Z on front of Wrapper, prepared only by

J. H. ZEILIN & CO.,
SOLE PROPRIETORS, PHILADELPHIA, PA.

Regol

NOTICE.—ESTATE OF PETER C. ADAMS, DECEASED.—Notice is hereby given that the undersigned, Administrator of the Estate of Peter C. Adams, deceased, of the County of La Salle and State of Illinois, will appear before the Probate Court of said County on the third Monday (being the sixteenth day) of November, 1885, at the Probate Court Room, in Ottawa, in said County, to receive and receive all claims against said estate, and to present the same in writing for adjustment.

Dated the 16th day of September, A. D. 1885.

JULIUS J. CARTER, Administrator.

J. IVOR MONTGOMERY.
Administrator of the Estate of Peter C. Adams, deceased, of the County of La Salle and State of Illinois, will appear before the Probate Court of said County on the third Monday (being the sixteenth day) of November, 1885, at the Probate Court Room, in Ottawa, in said County, to receive and receive all claims against said estate, and to present the same in writing for adjustment.

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M. KNEUSS'S DRUG STORE,

MAIN STREET,

West of La Salle Street, (south side,)

OTTAWA, ILLINOIS.

DRUGS AND CHEMICALS.

All the new and popular Patent Medicines, Extracts and Spices for culinary

Perfumery, Brushes, and Fancy Articles for the Toilet.